

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 03/32692

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01K13/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 44 31 045 A (BOSCH GMBH ROBERT) 7 March 1996 (1996-03-07) the whole document	1-4, 7-9, 13, 17, 18, 20, 21, 24
A	US 5 200 697 A (ADLER JONATHAN M ET AL) 6 April 1993 (1993-04-06) the whole document	1, 17-19
A	& US 5 381 090 A 10 January 1995 (1995-01-10) cited in the application	1, 17-19

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

*** Special categories of cited documents:**

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- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- *&* document member of the same patent family

Date of the actual completion of the international search

4 May 2004

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11/05/2004

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Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 4431045	A	07-03-1996	DE 4431045 A1	07-03-1996
US 5200697	A	06-04-1993	DE 4239828 A1	03-06-1993
			JP 3387534 B2	17-03-2003
			JP 5264562 A	12-10-1993
			US 5381090 A	10-01-1995